

COMPOSITE POLYMERIC TWIST TIE

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ABSTRACT OF THE DISCLOSURE

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A polymeric twist tie (20) is taught that utilizes a thermoplastic monofilament (22) having an oriented characteristic produced by stretching a pre-heated monofilament through a heated, volume reducing die. The monofilament (22) is then coated (30) circumferentially with an extrusion of thermoplastic enclosing the monofilament while simultaneously forming a pair of opposed wings (32) integral with the coating. The wings extend outwardly from the coated monofilament allowing the tie to be twisted upon itself with the monofilament retaining its basic configuration and the wings stretching and bending to conform within a coupled twist. The oriented monofilament is fabricated using high density polyethylene and the covering extruded with low density polyethylene which are dissimilar in density, melt index and basic thermoplastic morphology.

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